

RECEIVED  
CENTRAL FAX CENTER

DEC 05 2006

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application.

**Listing of Claims:**

1. (Canceled).
2. (Currently Amended) A composition comprising:  
a support; and  
a portion of the support comprising ~~a plurality of 2, 3, 4, 5, or 6 different~~ building blocks;  
the different building blocks being independently immobilized on the support by covalent coupling, by an ionic interaction, or by a combination thereof.
3. (Currently Amended) A composition comprising:  
a support; and  
a portion of the support comprising ~~a plurality of 2, 3, 4, 5, or 6 different~~ building blocks;  
the different building blocks being independently immobilized on the support by covalent coupling, by an ionic interaction, by hydrophobic interaction, or by a combination thereof.
- 4-5. (Canceled).
6. (Original) A composition comprising:  
a support, a functionalized lawn, and a plurality of building blocks;  
the functionalized lawn being coupled to the support;  
building blocks being reversibly immobilized on the lawn.
7. (Original) An article of manufacture comprising:  
a support, a functionalized lawn reagent, and a plurality of building blocks;  
the functionalized lawn being configured to be coupled to the support;  
the plurality of building blocks being configured to be reversibly coupled to the lawn.

- 8-9. (Canceled).
10. (New) The composition of claim 3, wherein the support comprises a first lipophilic moiety and the building block comprises a second lipophilic moiety.
11. (New) The composition of claim 10, wherein the first and second lipophilic moieties comprise independently branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkyl; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkynyl with 1 to 4 triple bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkyl; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkynyl with 1 to 4 triple bonds; polyaromatic hydrocarbon; substituted or unsubstituted cycloalkane; or mixtures thereof.
12. (New) The composition of claim 3, wherein the support comprises a first covalent binding moiety and the building block comprises a second covalent bonding moiety, the first and second covalent bonding moieties forming a readily reversible covalent bond.
13. (New) The composition of claim 12, wherein:  
the first covalent bonding moiety comprises an amine nitrogen and the second covalent bonding moiety comprises a carbonyl carbon;  
the first covalent bonding moiety comprises a carbonyl carbon and the second covalent bonding moiety comprises an amine nitrogen;  
or combination thereof.
14. (New) The composition of claim 3, wherein the support comprises a first charged moiety and the building block comprises a second charged moiety, the first and second charged moieties having opposite charges.
15. (New) The composition of claim 14, wherein

the first charged moiety comprises a carboxylate and the second charged moiety comprises an ammonium;

the first charged moiety comprises an ammonium and the second charged moiety comprises a carboxylate;

or combination thereof.

16. (New) The composition of claim 3, wherein:

the support comprises a first lipophilic moiety and a first covalent bonding moiety; and the building block comprises a second lipophilic moiety and a second covalent bonding moiety;

the support comprises a first lipophilic moiety and a first charged moiety; and the building block comprises a second lipophilic moiety and a second charged moiety;

or combination thereof.

17. (New) The composition of claim 6, wherein the functionalized lawn comprises a first lipophilic moiety and the building block comprises a second lipophilic moiety.

18. (New) The composition of claim 17, wherein the first and second lipophilic moieties comprise independently branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkyl; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkynyl with 1 to 4 triple bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkyl; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkynyl with 1 to 4 triple bonds; polyaromatic hydrocarbon; substituted or unsubstituted cycloalkane; or mixtures thereof.

19. (New) The composition of claim 6, wherein the functionalized lawn comprises a first covalent binding moiety and the building block comprises a second covalent bonding moiety, the first and second covalent bonding moieties forming a readily reversible covalent bond.

20. (New) The composition of claim 19, wherein:

the first covalent bonding moiety comprises an amine nitrogen and the second covalent bonding moiety comprises a carbonyl carbon;

the first covalent bonding moiety comprises a carbonyl carbon and the second covalent bonding moiety comprises an amine nitrogen;

or combination thereof.

21. The composition of claim 6, wherein the functionalized lawn comprises a first charged moiety and the building block comprises a second charged moiety, the first and second charged moieties having opposite charges.

22. (New) The composition of claim 21, wherein

the first charged moiety comprises a carboxylate and the second charged moiety comprises an ammonium;

the first charged moiety comprises an ammonium and the second charged moiety comprises a carboxylate;

or combination thereof.

23. (New) The article of manufacture of claim 7, wherein:

the functionalized lawn comprises a first lipophilic moiety and a first covalent bonding moiety; and the building block comprises a second lipophilic moiety and a second covalent bonding moiety;

the functionalized lawn comprises a first lipophilic moiety and a first charged moiety; and the building block comprises a second lipophilic moiety and a second charged moiety;

or combination thereof.

24. (New) The article of manufacture of claim 7, wherein the functionalized lawn comprises a first lipophilic moiety and the building block comprises a second lipophilic moiety.

25. (New) The article of manufacture of claim 24, wherein the first and second lipophilic moieties comprise independently branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkyl; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkenyl with 1 to 4 double

bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> alkynyl with 1 to 4 triple bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkyl; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkenyl with 1 to 4 double bonds; branched or straight chain, substituted or unsubstituted C<sub>6-36</sub> arylalkynyl with 1 to 4 triple bonds; polyaromatic hydrocarbon; substituted or unsubstituted cycloalkane; or mixtures thereof.

26. (New) The article of manufacture of claim 7, wherein:

the functionalized lawn comprises a first lipophilic moiety and a first covalent bonding moiety; and the building block comprises a second lipophilic moiety and a second covalent bonding moiety;

the functionalized lawn comprises a first lipophilic moiety and a first charged moiety; and the building block comprises a second lipophilic moiety and a second charged moiety; or combination thereof.

27. (New) The article of manufacture of claim 7, wherein the functionalized lawn comprises a first covalent binding moiety and the building block comprises a second covalent bonding moiety, the first and second covalent bonding moieties forming a readily reversible covalent bond.

28. (New) The article of manufacture of claim 27, wherein:

the first covalent bonding moiety comprises an amine nitrogen and the second covalent bonding moiety comprises a carbonyl carbon;

the first covalent bonding moiety comprises a carbonyl carbon and the second covalent bonding moiety comprises an amine nitrogen; or combination thereof.

29. (New) The article of manufacture of claim 7, wherein the functionalized lawn comprises a first charged moiety and the building block comprises a second charged moiety, the first and second charged moieties having opposite charges.

30. (New) The article of manufacture of claim 29, wherein

the first charged moiety comprises a carboxylate and the second charged moiety comprises an ammonium;

the first charged moiety comprises an ammonium and the second charged moiety comprises a carboxylate;  
or combination thereof.